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AUTHOR Wagner, Sigrid, Ed.; Kieran, Carolyn, Ed.
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ABSTRACT

This publication contains revised versions of the major papers presented at a research conference on the learning and teaching of algebra. The papers and discussions focused on four major themes: what is algebra and what should it become, in light of continuing technological advances; what has research told us about the teaching and learning of algebra; what is algebraic thinking and how does it relate to general mathematical thinking; and what is the role of representations in the learning of algebra. This monograph is divided into three parts: (1) "Past Research and Current Issues" (presenting 15 papers related to the thematic questions); (2) "A Research Agenda" (the research agenda generated by conference participants and reactions to the agenda from three perspectives); and (3) "Theoretical Considerations" (three retrospective papers on the theoretical issues). (YP)

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